

#16



1600

RAW SEQUENCE LISTING DATE: 02/03/2004  
 PATENT APPLICATION: US/09/487,790A TIME: 14:59:31

Input Set : A:\sequence listing HAPTO-002 US.txt  
 Output Set: N:\CRF4\01292004\I487790A.raw

3 <110> APPLICANT: Gorodetsky, Raphael  
 4 Marx, Gerard  
 6 <120> TITLE OF INVENTION: Novel Haptotactic Peptides  
 8 <130> FILE REFERENCE: 25129  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/487,790A  
 C--> 10 <141> CURRENT FILING DATE: 2000-01-20  
 10 <160> NUMBER OF SEQ ID NOS: 12  
 12 <170> SOFTWARE: PatentIn version 3.1  
 14 <210> SEQ ID NO: 1  
 15 <211> LENGTH: 21  
 16 <212> TYPE: PRT  
 17 <213> ORGANISM: Artificial  
 19 <220> FEATURE:  
 20 <223> OTHER INFORMATION: Equivalent to the c-terminus of fibrinogen beta-chain  
 22 <400> SEQUENCE: 1  
 24 Lys Gly Ser Trp Tyr Ser Met Arg Lys Met Ser Met Lys Ile Arg Pro  
 25 1 5 10 15  
 28 Phe Phe Pro Gln Gln  
 29 20  
 32 <210> SEQ ID NO: 2  
 33 <211> LENGTH: 20  
 34 <212> TYPE: PRT  
 35 <213> ORGANISM: Artificial  
 37 <220> FEATURE:  
 38 <223> OTHER INFORMATION: Equivalent to an internal sequence of fibrinogen gamma-chain  
 40 <400> SEQUENCE: 2  
 42 Lys Thr Arg Trp Tyr Ser Met Lys Lys Thr Thr Met Lys Ile Ile Pro  
 43 1 5 10 15  
 46 Phe Asn Arg Leu  
 47 20  
 50 <210> SEQ ID NO: 3  
 51 <211> LENGTH: 20  
 52 <212> TYPE: PRT  
 53 <213> ORGANISM: Artificial  
 55 <220> FEATURE:  
 56 <223> OTHER INFORMATION: Equivalent to the c-terminus of fibrinogen alpha-E-chain  
 58 <400> SEQUENCE: 3  
 60 Arg Gly Ala Asp Tyr Ser Leu Arg Ala Val Arg Met Lys Ile Arg Pro  
 61 1 5 10 15  
 64 Leu Val Thr Gln  
 65 20  
 68 <210> SEQ ID NO: 4  
 69 <211> LENGTH: 19

ENTERED

PG. 7

## **RAW SEQUENCE LISTING**

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70 <212> TYPE: PRT  
71 <213> ORGANISM: Artificial  
73 <220> FEATURE:  
74 <223> OTHER INFORMATION: Equivalent to the c-terminus of fibrinogen alpha-chain  
76 <400> SEQUENCE: 4  
78 Glu Ala Asp His Glu Gly Thr His Ser Thr Lys Arg Gly His Ala Lys  
79 1 5 10 15  
82 Ser Arg Pro  
86 <210> SEQ ID NO: 5  
87 <211> LENGTH: 20  
88 <212> TYPE: PRT  
89 <213> ORGANISM: Artificial  
91 <220> FEATURE:  
92 <223> OTHER INFORMATION: Equivalent to the c-terminus of fibrinogen gamma-chain  
94 <400> SEQUENCE: 5  
96 Leu Thr Ile Gly Glu Gly Gln Gln His His Leu Gly Gly Ala Lys Gln  
97 1 5 10 15  
100 Ala Gly Asp Val  
101 20  
104 <210> SEQ ID NO: 6  
105 <211> LENGTH: 29  
106 <212> TYPE: PRT  
107 <213> ORGANISM: Artificial  
109 <220> FEATURE:  
110 <223> OTHER INFORMATION: Fibrinogen C-beta consensus sequence  
112 <220> FEATURE:  
113 <221> NAME/KEY: MISC\_FEATURE  
114 <222> LOCATION: (1)...(2)  
115 <223> OTHER INFORMATION: Xaa = Hydrophilic amino acid selected from Asp, Glu, His,  
  
Lys, Asn,  
116 Gln, Arg, Ser, Thr  
119 <220> FEATURE:  
120 <221> NAME/KEY: MISC\_FEATURE  
121 <222> LOCATION: (7)...(7)  
122 <223> OTHER INFORMATION: Xaa = Hydrophobic amino acid selected from Ala, Phe, Ile,  
  
Leu, Met,  
123 Pro, Val, Trp, Tyr  
126 <220> FEATURE:  
127 <221> NAME/KEY: MISC\_FEATURE  
128 <222> LOCATION: (8)...(8)  
129 <223> OTHER INFORMATION: Xaa = Hydrophilic amino acid selected from Asp, Glu, His,  
  
Lys, Asn,  
130 Gln, Arg, Ser, Thr  
133 <220> FEATURE:  
134 <221> NAME/KEY: MISC\_FEATURE  
135 <222> LOCATION: (9)...(9)  
136 <223> OTHER INFORMATION: Xaa = Hydrophobic amino acid selected from Ala, Phe, Ile,  
  
Leu, Met,  
137 Pro, Val, Trp, Tyr  
140 <220> FEATURE:  
141 <221> NAME/KEY: MISC\_FEATURE  
142 <222> LOCATION: (10)...(10)  
143 <223> OTHER INFORMATION: Xaa = Hydrophilic amino acid selected from Asp, Glu, His,

Lys, Asn,

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144 Gln, Arg, Ser, Thr  
 147 <220> FEATURE:  
 148 <221> NAME/KEY: MISC\_FEATURE  
 149 <222> LOCATION: (12)..(12)  
 150 <223> OTHER INFORMATION: Xaa = Ala or Ser  
 153 <220> FEATURE:  
 154 <221> NAME/KEY: MISC\_FEATURE  
 155 <222> LOCATION: (13)..(13)  
 156 <223> OTHER INFORMATION: Xaa = Any amino acid  
 159 <220> FEATURE:  
 160 <221> NAME/KEY: MISC\_FEATURE  
 161 <222> LOCATION: (16)..(16)  
 162 <223> OTHER INFORMATION: Xaa = Hydrophobic amino acid selected from Ala, Phe, Ile,

Leu,

163 Met, Pro, Val, Trp, Tyr  
 166 <220> FEATURE:  
 167 <221> NAME/KEY: MISC\_FEATURE  
 168 <222> LOCATION: (18)..(18)  
 169 <223> OTHER INFORMATION: Xaa = Any amino acid  
 172 <220> FEATURE:  
 173 <221> NAME/KEY: MISC\_FEATURE  
 174 <222> LOCATION: (19)..(19)  
 175 <223> OTHER INFORMATION: Xaa = Hydrophobic amino acid selected from Ala, Phe, Ile,

Leu,

176 Met, Pro, Val, Trp, Tyr  
 179 <220> FEATURE:  
 180 <221> NAME/KEY: MISC\_FEATURE  
 181 <222> LOCATION: (20)..(20)  
 182 <223> OTHER INFORMATION: Xaa = Any amino acid  
 185 <220> FEATURE:  
 186 <221> NAME/KEY: MISC\_FEATURE  
 187 <222> LOCATION: (26)..(28)  
 188 <223> OTHER INFORMATION: Xaa = Any amino acid  
 191 <400> SEQUENCE: 6

W--> 193 Xaa Xaa Gly Val Val Trp Xaa Xaa Xaa Xaa Gly Xaa Xaa Tyr Ser Xaa

194 1 5 10 15

197 Arg Xaa Xaa Xaa Met Lys Ile Arg Pro Xaa Xaa Xaa Gln  
 198 20 25

201 <210> SEQ ID NO: 7  
 202 <211> LENGTH: 65  
 203 <212> TYPE: DNA  
 204 <213> ORGANISM: Artificial  
 206 <220> FEATURE:  
 207 <223> OTHER INFORMATION: Encoding haptotactic peptide C-beta

209 <400> SEQUENCE: 7  
 210 aagggggtcat ggtatcaatg aggaagatga gtatgaagat caggcccttc ttcccacagc 60  
 212 aatacg 65

215 <210> SEQ ID NO: 8  
 216 <211> LENGTH: 63  
 217 <212> TYPE: DNA  
 218 <213> ORGANISM: Artificial

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220 <220> FEATURE:
221 <223> OTHER INFORMATION: Encoding haptotactic peptide C-alpha-E
223 <400> SEQUENCE: 8
224 agagggcag attattccct caggctgtt cgcatgaaaa tttagccct tgtgaccaa 60
226 tag 63
229 <210> SEQ ID NO: 9
230 <211> LENGTH: 63
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Encoding haptotactic peptide Pre-C-gamma
237 <400> SEQUENCE: 9
238 aaaacccgtt ggtattccat gaagaaaacc actatgaaga taatcccatt caacagactc 60
240 aca 63
243 <210> SEQ ID NO: 10
244 <211> LENGTH: 15
245 <212> TYPE: PRT
246 <213> ORGANISM: Artificial
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Haptotactic consensus sequence
251 <220> FEATURE:
252 <221> NAME/KEY: MISC_FEATURE
253 <222> LOCATION: (3)..(3)
254 <223> OTHER INFORMATION: Xaa is absent or hydrophobic amino acid selected from Ala,
Phe,
255 Ile, Leu, Met, Pro, Val, Trp, Tyr.
258 <220> FEATURE:
259 <221> NAME/KEY: MISC_FEATURE
260 <222> LOCATION: (5)..(5)
261 <223> OTHER INFORMATION: Xaa = Any amino acid or absent
264 <220> FEATURE:
265 <221> NAME/KEY: MISC_FEATURE
266 <222> LOCATION: (6)..(6)
267 <223> OTHER INFORMATION: Xaa is absent or hydrophobic amino acid selected from Ala,
Phe,
268 Ile, Leu, Met, Pro, Val, Trp, Tyr
271 <220> FEATURE:
272 <221> NAME/KEY: MISC_FEATURE
273 <222> LOCATION: (12)..(14)
274 <223> OTHER INFORMATION: Xaa = Any amino acid or absent
277 <400> SEQUENCE: 10
W--> 279 Tyr Ser Xaa Arg Xaa Xaa Met Lys Ile Arg Pro Xaa Xaa Xaa Gln
280 1 5 10 15
283 <210> SEQ ID NO: 11
284 <211> LENGTH: 20
285 <212> TYPE: PRT
286 <213> ORGANISM: Artificial
288 <220> FEATURE:
289 <223> OTHER INFORMATION: Haptotactic consensus sequence
291 <220> FEATURE:
292 <221> NAME/KEY: MISC_FEATURE

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Input Set : A:\sequence listing HAPTO-002 US.txt  
 Output Set: N:\CRF4\01292004\I487790A.raw

293 <222> LOCATION: (2)..(3)  
 294 <223> OTHER INFORMATION: Xaa = Any amino acid or absent  
 297 <220> FEATURE:  
 298 <221> NAME/KEY: MISC\_FEATURE  
 299 <222> LOCATION: (8)..(8)

300 <223> OTHER INFORMATION: Xaa is absent or hydrophilic amino acid selected from Asp,  
 Glu, His,

301 Lys, Asn, Gln, Arg, Ser, Thr

304 <220> FEATURE:

305 <221> NAME/KEY: MISC\_FEATURE

306 <222> LOCATION: (10)..(10)

307 <223> OTHER INFORMATION: Xaa = Any amino acid or absent

310 <220> FEATURE:

311 <221> NAME/KEY: MISC\_FEATURE

312 <222> LOCATION: (11)..(11)

313 <223> OTHER INFORMATION: Xaa is absent or hydrophilic amino acid selected from Asp,

Glu,

314 His, Lys, Asn, Gln, Arg, Ser, Thr

317 <220> FEATURE:

318 <221> NAME/KEY: MISC\_FEATURE

319 <222> LOCATION: (15)..(15)

320 <223> OTHER INFORMATION: Xaa = Any amino acid or absent

323 <220> FEATURE:

324 <221> NAME/KEY: MISC\_FEATURE

325 <222> LOCATION: (18)..(20)

326 <223> OTHER INFORMATION: Xaa = Any amino acid or absent

329 <400> SEQUENCE: 11

W--> 331 Lys Xaa Xaa Trp Tyr Ser Met Xaa Lys Xaa Xaa Met Lys Ile Xaa Pro

332 1 5 10 15

335 Phe Xaa Xaa Xaa

336 20

339 <210> SEQ ID NO: 12

340 <211> LENGTH: 30

341 <212> TYPE: PRT

342 <213> ORGANISM: Artificial

344 <220> FEATURE:

345 <223> OTHER INFORMATION: Fibrinogen C beta homology sequence

347 <220> FEATURE:

348 <221> NAME/KEY: MISC\_FEATURE

349 <222> LOCATION: (2)..(2)

350 <223> OTHER INFORMATION: Xaa = Hydrophilic amino acid selected from Asp, Glu, His,

Lys,

351 Asn, Gln, Arg, Ser, Thr

354 <220> FEATURE:

355 <221> NAME/KEY: MISC\_FEATURE

356 <222> LOCATION: (4)..(5)

357 <223> OTHER INFORMATION: Xaa = Hydrophobic amino acid selected from Ala, Phe, Ile,

Leu, Met,

358 Pro, Val, Trp, Tyr

361 <220> FEATURE:

362 <221> NAME/KEY: MISC\_FEATURE

363 <222> LOCATION: (7)..(8)

364 <223> OTHER INFORMATION: Xaa = Any amino acid

RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 02/03/2004  
PATENT APPLICATION: US/09/487,790A               TIME: 14:59:32

Input Set : A:\sequence listing HAPTO-002 US.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 1, 2, 3, 4, 5, 6, 10, 12, 13, 14, 16, 18, 19, 20, 26, 27, 28

Seq#:10; Xaa Pos. 3, 5, 6, 12, 13, 14

Seq#:11; Xaa Pos. 2, 3, 8, 10, 11, 15, 18, 19, 20

Seq#:12; Xaa Pos. 2, 4, 5, 7, 8, 11, 12, 17, 19, 20, 24, 27, 28, 29, 30

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

VERIFICATION SUMMARY  
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Input Set : A:\sequence listing HAPTO-002 US.txt  
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L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
M:341 Repeated in SeqNo=6  
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
M:341 Repeated in SeqNo=11  
L:407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
M:341 Repeated in SeqNo=12